

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD0150</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 0150 Merrit Island</b>	<b>A</b>	<b>18.07</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.11		0.11	0.61%		
Trim / Thin Trees	0.28		0.28	1.55%		
Encroachments	0.27		0.27	1.49%	1.16	0.42
Animal Control	0.03		0.03	0.17%		
Slope Stability	0.09		0.09	0.50%		
Erosion / Bank Caving	0.07		0.07	0.39%		
Crown Surface / Depressions / Rutting	0.07		0.07	0.39%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.06%		
<b>LMA Totals:</b>	<b>0.93</b>	<b>0.00</b>	<b>0.93</b>	<b>5.15%</b>	<b>1.16</b>	<b>0.42</b>

  

<b>Unit No. 01 Sutter Slough LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD0150</b>	<b>A</b>	<b>0.54</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.01		0.01	1.85%		
Encroachments	0.02		0.02	3.70%	0.01	
<b>Unit Totals:</b>	<b>0.03</b>	<b>0.00</b>	<b>0.03</b>	<b>5.56%</b>	<b>0.01</b>	<b>0.00</b>

  

<b>Unit No. 02 Sacramento River RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD0150</b>	<b>A</b>	<b>7.95</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.06		0.06	0.76%		
Trim / Thin Trees	0.23		0.23	2.89%		
Encroachments	0.08		0.08	1.01%	0.45	0.41
Slope Stability	0.05		0.05	0.63%		
Erosion / Bank Caving	0.01		0.01	0.13%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.13%		
<b>Unit Totals:</b>	<b>0.44</b>	<b>0.00</b>	<b>0.44</b>	<b>5.54%</b>	<b>0.45</b>	<b>0.41</b>

**Flood Control Project Maintenance  
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**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

***Sacramento River Basin (cont.)***

Unit No. 03 Elk Slough LB		Overall Unit Rating	Total Unit Miles			
RD0150		A	9.58			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Earthen Levee						
Vegetation	0.04		0.04	0.42%		
Trim / Thin Trees	0.05		0.05	0.52%		
Encroachments	0.17		0.17	1.78%	0.70	0.01
Animal Control	0.03		0.03	0.31%		
Slope Stability	0.04		0.04	0.42%		
Erosion / Bank Caving	0.06		0.06	0.63%		
Crown Surface / Depressions / Rutting	0.07		0.07	0.73%		
Unit Totals:	0.46	0.00	0.46	4.80%	0.70	0.01

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Slough			Left	0.54
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/27/2011 - 5/27/2011		11/30/2011 - 11/30/2011	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sutter Slough						Left	0.54	11/30/2011 11/30/2011	Pavel Kazi	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.20	0.20	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.331402 ° -121.580358 °	38.331402 ° -121.580358 °	3 Y
2	0.33	0.33	Earthen Levee	Encroachments	CR	M	Debris Inspector Comments: Bales of hay used as backing for target practice on the crown of the levee.	38.329926 ° -121.578919 °	38.329926 ° -121.578919 °	4 Y
3	0.35	0.35	Earthen Levee	Encroachments	WS	PO	Tank Inspector Comments: Tank for the monitoring station on the waterward shoulder	° °	° °	2 Y
4	0.46	0.46	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.328739 ° -121.577383 °	38.328739 ° -121.577383 °	5 Y
5	0.46	0.46	Earthen Levee	Encroachments	LS	M	Debris	38.328738 ° -121.577383 °	38.328738 ° -121.577383 °	1 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	11/30/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	1
Start Levee Mile	0.20
End Levee Mile	0.20
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Elderberry tree was found on the landside of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_274.jpg



Levee Mile Report Line	2
Start Levee Mile	0.33
End Levee Mile	0.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of a hay bale target on the crown of the levee looking west.

pkazi\_f\_20110923\_275.jpg



Levee Mile Report Line	3
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A water tank was found on the waterside of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_273.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	11/30/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	4
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Vegetation was mowed by the LMA on the landside of the levee looking upstream.

pkazi\_f\_20111208\_445.jpg



Levee Mile Report Line	5
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Debris was found on the landside of the levee looking upstream.

pkazi\_f\_20111208\_444.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Right	7.95
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/20/2011 - 5/20/2011		11/29/2011 - 11/30/2011	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By				

Check one:

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**Comments**

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Signature of LMA Representative

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Sacramento River						Right	7.95	11/29/2011 11/30/2011	Pavel Kazi	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.16	0.16	Earthen Levee	Encroachments	WS PO	Buildings		38.330047 ° -121.574538 °	38.330047 ° -121.574538 °	49 Y
2	0.17	0.21	Earthen Levee	Encroachments	LS PO	Landscaping		38.330173 ° -121.574490 °	38.330576 ° -121.574093 °	990
3	0.24	0.24	Earthen Levee	Vegetation	WS M	Remove the wild growth other than native grasses from the levee slopes.		38.330956 ° -121.573660 °	38.330956 ° -121.573660 °	50 Y
4	0.25	0.25	Earthen Levee	Encroachments	LS CO	Landscaping		38.331035 ° -121.573502 °	38.331035 ° -121.573502 °	4 Y
5	0.27	0.57	Earthen Levee	Vegetation	WS C	Remove the wild growth other than native grasses from the levee slopes.		38.331219 ° -121.573417 °	38.334561 ° -121.570027 °	2
6	0.27	0.27	Earthen Levee	Encroachments	LS M	Tree or limb		38.331410 ° -121.573331 °	38.331410 ° -121.573331 °	94 Y
7	0.34	0.34	Earthen Levee	Encroachments	LS PO	Fences		38.332156 ° -121.572580 °	38.332156 ° -121.572580 °	9 Y
8	0.39	0.39	Earthen Levee	Encroachments	WS M	Stairways		38.332647 ° -121.572140 °	38.332647 ° -121.572140 °	13 Y
9	0.46	0.46	Earthen Levee	Encroachments	LS C	Prunings		38.333490 ° -121.571406 °	38.333490 ° -121.571406 °	989
10	0.47	0.47	Earthen Levee	Encroachments	LS PO	Landscaping		38.333641 ° -121.571260 °	38.333641 ° -121.571260 °	3
11	0.59	0.59	Earthen Levee	Trim / Thin Trees	WS M	Trim and thin trees to allow visibility of the ground and room to flood fight.		38.334776 ° -121.569760 °	38.334776 ° -121.569760 °	51 Y
12	0.90	0.90	Earthen Levee	Trim / Thin Trees	LS C	Trim trees to at least five feet above ground level.		38.338312 ° -121.566158 °	38.338312 ° -121.566158 °	5
13	0.97	0.97	Earthen Levee	Vegetation	LS M	Remove the wild growth other than native grasses from the levee slopes.		38.338980 ° -121.565301 °	38.338980 ° -121.565301 °	987
14	0.98	1.00	Earthen Levee	Trim / Thin Trees	LS C	Trim trees to at least five feet above ground level.		38.339042 ° -121.565209 °	38.339307 ° -121.564860 °	6
15	0.98	0.98	Earthen Levee	Trim / Thin Trees	LS C	Thin trees to allow visibility of the ground and room to flood fight.		38.339004 ° -121.565170 °	38.339004 ° -121.565170 °	33
16	1.04	1.04	Earthen Levee	Trim / Thin Trees	LS A	Trim trees to at least five feet above ground level.		38.339569 ° -121.564448 °	38.339569 ° -121.564448 °	12 Y
17	1.11	1.11	Earthen Levee	Trim / Thin Trees	LS C	Trim trees to at least five feet above ground level.		38.340337 ° -121.563528 °	38.340337 ° -121.563528 °	7
18	1.16	1.16	Earthen Levee	Trim / Thin Trees	LS N	Tree stumps.		38.340864 ° -121.562915 °	38.340864 ° -121.562915 °	8 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River							Right	7.95	11/29/2011 11/30/2011	Pavel Kazi
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
19	1.28	1.28	Earthen Levee	Encroachments	LS	PO	Landscaping	38.342229 ° -121.561694 °	38.342229 ° -121.561694 °	92
20	1.34	1.37	Earthen Levee	Encroachments	LS	PO	Landscaping	38.342969 ° -121.561196 °	38.343252 ° -121.560794 °	91 Y
21	1.58	1.71	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.344856 ° -121.557519 °	38.345434 ° -121.555272 °	36
22	1.73	1.73	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.345574 ° -121.554909 °	38.345574 ° -121.554909 °	90
23	1.76	1.76	Earthen Levee	Encroachments	LS	C	Landscaping	38.345675 ° -121.554407 °	38.345675 ° -121.554407 °	89
24	1.87	1.87	Earthen Levee	Erosion / Bank Caving	LS	C	Note and monitor erosion site.	38.346134 ° -121.552466 °	38.346134 ° -121.552466 °	10
25	2.23	2.27	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.347193 ° -121.546102 °	38.347259 ° -121.545535 °	11
26	2.29	2.29	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.347296 ° -121.545105 °	38.347296 ° -121.545105 °	985
27	2.31	2.33	Earthen Levee	Encroachments	LS	PO	Landscaping	38.347355 ° -121.544628 °	38.347361 ° -121.544280 °	88 Y
28	2.35	2.35	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Debris found on toe of the levee, in addition, tree limbs on the roadway of the crown.	38.347169 ° -121.544008 °	38.347169 ° -121.544008 °	87
29	2.46	2.46	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: A platform and sitting/fishing area has been cut into the waterward slope. The encroachment should be removed and the slope repaired	38.347614 ° -121.541988 °	38.347614 ° -121.541988 °	960 Y
30	2.48	2.49	Earthen Levee	Encroachments	LS	PO	Landscaping	38.347720 ° -121.541737 °	38.347800 ° -121.541435 °	983
31	2.80	2.80	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.350041 ° -121.536853 °	38.350041 ° -121.536853 °	14 Y
32	2.82	2.82	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.350277 ° -121.536457 °	38.350277 ° -121.536457 °	1 Y
33	2.82	2.82	Earthen Levee	Encroachments	LS	PO	Landscaping	38.350324 ° -121.536488 °	38.350324 ° -121.536488 °	16
34	3.02	3.06	Earthen Levee	Encroachments	LS	CO	Landscaping	38.352372 ° -121.534127 °	38.352802 ° -121.533638 °	85 Y
35	3.13	3.13	Earthen Levee	Trim / Thin Trees	LS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.353572 ° -121.532783 °	38.353572 ° -121.532783 °	40

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
36	3.29	3.29	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.	38.355321 ° -121.530902 °	38.355321 ° -121.530902 °	961 Y
37	3.31	3.31	Earthen Levee	Trim / Thin Trees	LS	A	Thin trees to allow visibility of the ground and room to flood fight.	38.355632 ° -121.530740 °	38.355632 ° -121.530740 °	952 Y
38	3.35	3.35	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.355979 ° -121.530288 °	38.355979 ° -121.530288 °	17
39	3.44	3.44	Earthen Levee	Encroachments	LS	M	Prunings	38.356986 ° -121.529131 °	38.356986 ° -121.529131 °	18
40	3.56	3.56	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: PVC pipe was used for pumping the water.	38.358152 ° -121.527579 °	38.358152 ° -121.527579 °	15 Y
41	3.60	3.73	Earthen Levee	Encroachments	LS	CO	Landscaping	38.358565 ° -121.527153 °	38.359729 ° -121.525345 °	82
42	3.90	3.93	Earthen Levee	Encroachments	LS	PO	Landscaping	38.361419 ° -121.523225 °	38.361752 ° -121.522974 °	80 Y
43	4.15	4.16	Earthen Levee	Encroachments	LS	PO	Buildings Inspector Comments: 3' retaining wall at the landward shoulder.	38.364854 ° -121.522378 °	38.365104 ° -121.522365 °	20 Y
44	4.17	4.17	Earthen Levee	Encroachments	LS	PO	Landscaping	38.365162 ° -121.522365 °	38.365162 ° -121.522365 °	953
45	4.33	4.35	Earthen Levee	Encroachments	LS	CO	Landscaping	38.367442 ° -121.522427 °	38.367740 ° -121.522495 °	24 Y
46	4.37	4.41	Earthen Levee	Encroachments	LS	CO	Landscaping	38.368036 ° -121.522611 °	38.368540 ° -121.522729 °	79
47	4.47	4.47	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011: Failing rock repair. Slumping of the lower bank. Minor new erosion. [2011 Site ID: SAC_38-5_R]	38.370928 ° -121.523069 °	38.371909 ° -121.523316 °	19 Y
48	4.53	4.68	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.370322 ° -121.523120 °	38.372337 ° -121.523748 °	42
49	4.68	4.68	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.372380 ° -121.523802 °	38.372380 ° -121.523802 °	977 Y
50	4.76	4.76	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.373485 ° -121.523963 °	38.373485 ° -121.523963 °	28 Y

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WS : Water Side  
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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River							Right	7.95	11/29/2011 11/30/2011	Pavel Kazi
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
51	4.78	4.79	Earthen Levee	Encroachments	LS	PO	Landscaping	38.373688 ° -121.524280 °	38.373970 ° -121.524403 °	76
52	4.95	4.95	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Abandoned pipe is not welded all the way around the outside perimeter.	38.375923 ° -121.525312 °	38.375923 ° -121.525312 °	21 Y
53	4.97	4.97	Earthen Levee	Trim / Thin Trees	LS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.376279 ° -121.525471 °	38.376279 ° -121.525471 °	22
54	5.14	5.17	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.378715 ° -121.525458 °	38.379052 ° -121.525341 °	30
55	5.17	5.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.379054 ° -121.525341 °	38.379769 ° -121.525024 °	75 Y
56	5.27	5.32	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.380470 ° -121.524612 °	38.381101 ° -121.524186 °	43
57	5.30	5.30	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation has been fixed.	38.380797 ° -121.524391 °	38.380797 ° -121.524391 °	23 Y
58	5.33	5.33	Earthen Levee	Slope Stability	WS	M	Repair slope instability. Inspector Comments: Cavity located under rock rip rap on waterward slope at the shoulder over an irrigation pipe.	38.381126 ° -121.524208 °	38.381126 ° -121.524208 °	976 Y
59	5.33	5.33	Earthen Levee	Slope Stability	LS	M	Repair slope instability. Inspector Comments: Depression in the landward slope at the shoulder over an irrigation pipe.	38.381126 ° -121.524207 °	38.381126 ° -121.524207 °	975 Y
60	5.42	5.42	Earthen Levee	Encroachments	LS	M	Prunings	38.382167 ° -121.523178 °	38.382167 ° -121.523178 °	25
61	5.47	5.49	Earthen Levee	Encroachments	LS	PO	Landscaping	38.382675 ° -121.522367 °	38.382793 ° -121.522164 °	74
62	5.55	5.57	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.383320 ° -121.521259 °	38.383575 ° -121.520835 °	44 Y
63	5.75	5.75	Earthen Levee	Encroachments	WS	C	Debris	38.385019 ° -121.518348 °	38.385019 ° -121.518348 °	47
64	5.81	5.81	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Tires on the waterward slope.	38.385654 ° -121.517535 °	38.385654 ° -121.517535 °	965 Y
65	6.18	6.18	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Orelander on the landside of the levee.	38.390386 ° -121.515078 °	38.390386 ° -121.515078 °	26
66	6.19	6.19	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Century plant on landside slope	38.390582 ° -121.515101 °	38.390582 ° -121.515101 °	71

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector	
Unit No. 02 Sacramento River						Right	7.95	11/29/2011 11/30/2011		Pavel Kazi	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	Photo
	Start	End						Start	End		
67	6.41	6.41	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Century plant on the landward slope.	38.393655 ° -121.514654 °	38.393655 ° -121.514654 °	27	Y
68	6.42	6.42	Earthen Levee	Encroachments	LS	PO	Landscaping	38.393850 ° -121.514629 °	38.393850 ° -121.514629 °	29	
69	6.43	6.43	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.394008 ° -121.514609 °	38.394008 ° -121.514609 °	67	
70	6.46	6.46	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.394416 ° -121.514590 °	38.394416 ° -121.514590 °	31	Y
71	6.49	6.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.394846 ° -121.514566 °	38.394846 ° -121.514566 °	38	
72	6.50	6.57	Earthen Levee	Encroachments	LS	PO	Landscaping	38.394935 ° -121.514597 °	38.395931 ° -121.514604 °	65	Y
73	6.53	6.53	Earthen Levee	Encroachments	WS	PO	Landscaping	38.395340 ° -121.514528 °	38.395340 ° -121.514528 °	34	Y
74	6.54	6.54	Earthen Levee	Encroachments	WS	PO	Landscaping	38.395449 ° -121.514508 °	38.395456 ° -121.514509 °	958	
75	6.67	6.72	Earthen Levee	Encroachments	LS	CO	Landscaping	38.397411 ° -121.514681 °	38.398033 ° -121.514753 °	64	Y
76	6.76	6.79	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Century plants on the landside.	38.398619 ° -121.514819 °	38.399044 ° -121.514855 °	63	
77	6.80	6.80	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.399149 ° -121.514797 °	38.399149 ° -121.514797 °	35	
78	6.83	6.83	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.399689 ° -121.514926 °	38.399689 ° -121.514926 °	61	
79	6.93	7.05	Earthen Levee	Encroachments	LS	CO	Landscaping	38.400936 ° -121.515173 °	38.402613 ° -121.515863 °	60	Y
80	7.12	7.12	Earthen Levee	Encroachments	WS	A	Debris	38.403571 ° -121.516200 °	38.403571 ° -121.516200 °	52	Y
81	7.12	7.12	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403631 ° -121.516299 °	38.403631 ° -121.516299 °	58	Y
82	7.25	7.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.405383 ° -121.516940 °	38.405383 ° -121.516940 °	46	Y
83	7.28	7.28	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.405774 ° -121.517283 °	38.405774 ° -121.517283 °	968	Y
84	7.34	7.34	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.406454 ° -121.517732 °	38.406454 ° -121.517732 °	32	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Sacramento River						Right	7.95	11/29/2011 11/30/2011	Pavel Kazi	

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
85	7.35	7.35	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.406607 ° -121.517739 °	38.406607 ° -121.517739 °	970
86	7.36	7.41	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.406817 ° -121.517687 °	38.407430 ° -121.518047 °	48 Y
87	7.92	7.92	Earthen Levee	Encroachments	LS	PO	Landscaping	38.413705 ° -121.522806 °	38.413705 ° -121.522806 °	56 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	1
Start Levee Mile	0.16
End Levee Mile	0.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Building located on waterside of levee at LM 0.16

pkazi\_f\_20110923\_295.JPG



Levee Mile Report Line	3
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Remove century plant within 20' of waterside shoulder on waterside of the levee at LM 0.24

pkazi\_f\_20110923\_296.JPG



Levee Mile Report Line	4
Start Levee Mile	0.25
End Levee Mile	0.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landward slope at LM 0.25 blocking view of levee slope.

pkazi\_f\_20110923\_278.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	6
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove tree branches from landside of levee at LM 0.27	
pkazi_f_20110923_309.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fence was found on the landside of the levee looking upstream.	
pkazi_f_20111208_435.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.	
pkazi_f_20110923_281.jpg	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	11
Start Levee Mile	0.59
End Levee Mile	0.59
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trim trees above 5' from surface of the waterside of the levee within 20' from shoulder at LM 0.59

pkazi\_f\_20110923\_297.JPG



Levee Mile Report Line	16
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree were trimmed on the landside of the levee looking upstream.

pkazi\_f\_20111208\_436.jpg



Levee Mile Report Line	18
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of a tree stump on the landward slope.

pkazi\_f\_20110923\_280.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	20
Start Levee Mile	1.34
End Levee Mile	1.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping was found landside of the levee looking upstream.

pkazi\_f\_20111208\_437.jpg



Levee Mile Report Line	27
Start Levee Mile	2.31
End Levee Mile	2.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_308.jpg



Levee Mile Report Line	29
Start Levee Mile	2.46
End Levee Mile	2.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of debris located on the waterward slope looking upstream.

pkazi\_f\_20110923\_310.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	31
Start Levee Mile	2.80
End Levee Mile	2.80
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of a tree stump on the landward slope.

pkazi\_f\_20110923\_282.jpg



Levee Mile Report Line	32
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Slope instability was found on the waterside slope of the levee looking upstream.

pkazi\_f\_20111208\_446.jpg



Levee Mile Report Line	34
Start Levee Mile	3.02
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping providing a screen for a residence on landside of levee from LM 3.02 to LM 3.06

pkazi\_f\_20110923\_306.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	36
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion on the waterward slope looking upstream. Depressions into the slope can be seen in several places.

pkazi\_f\_20110923\_311.jpg



Levee Mile Report Line	36
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Additional view of erosion on the waterward slope looking upstream. Note the damaged pump support, pump, and pipe just upstream of the site.

pkazi\_f\_20110923\_312.jpg



Levee Mile Report Line	36
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

pkazi\_f\_20111208\_438.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	37
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees were trimmed by the LMA on the landside of the levee looking upstream.

pkazi\_f\_20111208\_439.jpg



Levee Mile Report Line	40
Start Levee Mile	3.56
End Levee Mile	3.56
Location	Crown
Category	Earthen Levee
Item	Encroachments

PVC pipe was used under the levee crown for irrigation purpose. The picture was taken from the crown looking downstream.

pkazi\_f\_20111208\_440.jpg



Levee Mile Report Line	42
Start Levee Mile	3.90
End Levee Mile	3.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

pkazi\_f\_20110923\_305.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	43
Start Levee Mile	4.15
End Levee Mile	4.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a retaining wall on the landward slope looking upstream.

pkazi\_f\_20110923\_283.jpg



Levee Mile Report Line	45
Start Levee Mile	4.33
End Levee Mile	4.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping (Oleander) on landward slope from 4.33 to 4.35

pkazi\_f\_20110923\_284.jpg



Levee Mile Report Line	47
Start Levee Mile	4.47
End Levee Mile	4.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_SAC\_38-5\_R\_1.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	47
Start Levee Mile	4.47
End Levee Mile	4.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_SAC\_38-5\_R\_2.jpg



Levee Mile Report Line	47
Start Levee Mile	4.47
End Levee Mile	4.47
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_SAC\_38-5\_R\_3.jpg



Levee Mile Report Line	49
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of a tree on the landward slope with lower branches blocking visibility and access. Most of these branches appear to already be dead and should be removed.

pkazi\_f\_20110923\_317.jpg

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	50
Start Levee Mile	4.76
End Levee Mile	4.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Century plant on waterward slope at LM 4.76

pkazi\_f\_20110923\_285.jpg



Levee Mile Report Line	52
Start Levee Mile	4.95
End Levee Mile	4.95
Location	Water Side
Category	Earthen Levee
Item	Encroachments

End of the pipe was not welded properly to perform as a closure device. The picture was taken from the crown looking upstream.

pkazi\_f\_20111208\_441.jpg



Levee Mile Report Line	55
Start Levee Mile	5.17
End Levee Mile	5.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of landscaping along the landward shoulder and slope looking downstream.

pkazi\_f\_20110923\_304.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	57
Start Levee Mile	5.30
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Vegetation was mowed by the LMA on the landside of the levee looking downstream.

pkazi\_f\_20111208\_442.jpg



Levee Mile Report Line	58
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

View of rock placed on a pipe penetration on the waterward slope. Cavities can be seen under the rocks.

pkazi\_f\_20110923\_316.jpg



Levee Mile Report Line	59
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

pkazi\_f\_20110923\_315.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	62
Start Levee Mile	5.55
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree branches were obstruction the visibility of the landside slope of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_291.jpg



Levee Mile Report Line	64
Start Levee Mile	5.81
End Levee Mile	5.81
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of several tires along the waterward slope.

pkazi\_f\_20110923\_313.jpg



Levee Mile Report Line	67
Start Levee Mile	6.41
End Levee Mile	6.41
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Century plant was found on the landside of the levee looking upstream.

pkazi\_f\_20111208\_443.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	70
Start Levee Mile	6.46
End Levee Mile	6.46
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees need to be trimmed on the landside of the levee looking upstream.

pkazi\_f\_20111208\_447.jpg



Levee Mile Report Line	72
Start Levee Mile	6.50
End Levee Mile	6.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of landscaping along the waterward shoulder and slope looking downstream.

pkazi\_f\_20110923\_303.jpg



Levee Mile Report Line	73
Start Levee Mile	6.53
End Levee Mile	6.53
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Landscaping was found on the waterside of the levee looking upstream.

pkazi\_f\_20111208\_448.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	75
Start Levee Mile	6.67
End Levee Mile	6.72
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72	
pkazi_f_20110923_302.JPG	



Levee Mile Report Line	79
Start Levee Mile	6.93
End Levee Mile	7.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee from LM 6.93 to LM 7.05	
pkazi_f_20110923_301.JPG	



Levee Mile Report Line	80
Start Levee Mile	7.12
End Levee Mile	7.12
Location	Water Side
Category	Earthen Levee
Item	Encroachments
No debris was found near the gate where debris was found during last inspection. The picture was taken from the crown looking waterside of the levee.	
pkazi_f_20110923_298.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	81
Start Levee Mile	7.12
End Levee Mile	7.12
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping providing a screen for a residence on landside of levee at LM 7.12

pkazi\_f\_20110923\_300.JPG



Levee Mile Report Line	82
Start Levee Mile	7.25
End Levee Mile	7.25
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trim or remove brush to allow for visibility on landside of levee at LM 7.25

pkazi\_f\_20110923\_292.JPG



Levee Mile Report Line	83
Start Levee Mile	7.28
End Levee Mile	7.28
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

View of minor erosion along the top portion of the waterward slope likely cause by foot traffic. The erosion has started to encroach into the shoulder of the road.

pkazi\_f\_20110923\_314.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/29/2011 11/30/2011	Pavel Kazi

Levee Mile Report Line	86
Start Levee Mile	7.36
End Levee Mile	7.41
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trim/thin trees and brush on landside of levee from LM 7.36 to LM 7.41

pkazi\_f\_20110923\_294.JPG



Levee Mile Report Line	87
Start Levee Mile	7.92
End Levee Mile	7.92
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside of levee at LM 7.92

pkazi\_f\_20110923\_299.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 03 Elk Slough			Left	9.58

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/27/2011 - 5/27/2011		11/28/2011 - 11/29/2011	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough				Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.11	0.11	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	38.334233 ° -121.583414 °	38.334233 ° -121.583414 °	936 Y
2	0.15	9.40	Supplemental	USACE Erosion Survey	WS	W	Inspector Comments: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011: Channel banks are still oversteeped with erosion continuing. [2011 Site ID: ELK_0-2_L]	38.335366 ° -121.583014 °	38.413893 ° -121.522896 °	80 Y
3	0.36	0.36	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: Steps, water, electricity, and dock on waterward slope.	38.337442 ° -121.581628 °	38.337442 ° -121.581628 °	3 Y
4	0.38	0.38	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: ice plant on land slope	38.337632 ° -121.581532 °	38.337632 ° -121.581532 °	42
5	0.51	0.51	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.339577 ° -121.581133 °	38.339577 ° -121.581133 °	82
6	0.56	0.56	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.340273 ° -121.580969 °	38.340273 ° -121.580969 °	937 Y
7	0.92	0.95	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.345293 ° -121.579769 °	38.345634 ° -121.579574 °	5 Y
8	1.23	1.23	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.347607 ° -121.576130 °	38.347607 ° -121.576130 °	10 Y
9	1.82	1.82	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site. Inspector Comments: Erosion appeared under the pipe.	38.353249 ° -121.572848 °	38.353249 ° -121.572848 °	50 Y
10	1.82	2.06	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.353251 ° -121.572848 °	38.354665 ° -121.569340 °	44
11	1.87	1.87	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.353895 ° -121.572250 °	38.353895 ° -121.572250 °	81 Y
12	2.02	2.02	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.354796 ° -121.570004 °	38.354796 ° -121.570004 °	45

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Elk Slough				Left	9.58	11/28/2011 11/29/2011	Pavel Kazi	

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	2.07	2.07	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.354554 ° -121.569076 °	38.354554 ° -121.569076 °	79 Y
14	2.34	2.34	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: New tree was planted on the waterside slope.	38.354286 ° -121.564494 °	38.354286 ° -121.564494 °	78 Y
15	2.60	2.60	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.356853 ° -121.561565 °	38.356853 ° -121.561565 °	11 Y
16	2.77	2.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A	Regrade the crown roadway for proper drainage.	38.359456 ° -121.561276 °	38.359456 ° -121.561276 °	43 Y
17	2.87	2.87	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.360621 ° -121.561762 °	38.360621 ° -121.561762 °	17 Y
18	2.93	2.93	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	38.361375 ° -121.562134 °	38.361375 ° -121.562134 °	76 Y
19	2.93	2.93	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	38.361375 ° -121.562135 °	38.361375 ° -121.562135 °	75 Y
20	3.01	3.01	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.362576 ° -121.562285 °	38.362576 ° -121.562285 °	18 Y
21	3.18	3.18	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363800 ° -121.560128 °	38.363800 ° -121.560128 °	19 Y
22	3.21	3.21	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363658 ° -121.559583 °	38.363658 ° -121.559583 °	20 Y
23	3.26	3.26	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363387 ° -121.558685 °	38.363387 ° -121.558685 °	22 Y
24	3.30	3.30	Earthen Levee	Encroachments	LS	M	Debris	38.363152 ° -121.558088 °	38.363152 ° -121.558088 °	40 Y
25	3.34	3.34	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.363015 ° -121.557325 °	38.363015 ° -121.557325 °	70 Y
26	3.34	3.34	Earthen Levee	Encroachments	LS	M	Material	38.363015 ° -121.557325 °	38.363015 ° -121.557325 °	71 Y
27	3.34	3.34	Earthen Levee	Encroachments	LS	M	Pipe	38.363043 ° -121.557316 °	38.363043 ° -121.557316 °	39 Y
28	3.41	3.41	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363147 ° -121.556190 °	38.363147 ° -121.556190 °	27 Y
29	3.43	3.48	Earthen Levee	Erosion / Bank Caving	WS	A	Note and monitor erosion site.	37.363223 ° -121.555960 °	37.363953 ° -121.555380 °	62 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough						Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
30	3.50	3.54	Earthen Levee	Encroachments	LS	PO	Landscaping	38.364251 ° -121.555321 °	38.364772 ° -121.555343 °	47 Y
31	3.75	3.75	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.367305 ° -121.554984 °	38.367305 ° -121.554984 °	927 Y
32	3.77	3.77	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.367393 ° -121.554528 °	38.367393 ° -121.554528 °	15 Y
33	3.79	3.79	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	38.367373 ° -121.554085 °	38.367373 ° -121.554085 °	36 Y
34	3.95	3.95	Earthen Levee	Encroachments	LS	M	Debris	38.368118 ° -121.551509 °	38.368118 ° -121.551509 °	48 Y
35	4.02	4.02	Earthen Levee	Slope Stability	WS	C	Repair slope instability.	38.369182 ° -121.551477 °	38.369182 ° -121.551477 °	33
36	4.06	4.06	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.369686 ° -121.551744 °	38.369686 ° -121.551744 °	35 Y
37	4.10	4.10	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.370113 ° -121.552009 °	38.370113 ° -121.552009 °	29 Y
38	4.10	4.10	Earthen Levee	Slope Stability	WS	C	Repair slope instability.	38.370113 ° -121.552011 °	38.370113 ° -121.552011 °	28
39	4.35	4.35	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.373319 ° -121.550836 °	38.373319 ° -121.550836 °	37 Y
40	4.39	4.39	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.373741 ° -121.550481 °	38.373741 ° -121.550481 °	38 Y
41	4.46	4.46	Earthen Levee	Encroachments	LS	M	Prunings	38.374269 ° -121.549385 °	38.374269 ° -121.549385 °	51 Y
42	4.51	4.51	Earthen Levee	Encroachments	LS	M	Tree or limb	38.374267 ° -121.548441 °	38.374267 ° -121.548441 °	52 Y
43	4.59	4.59	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.374419 ° -121.547096 °	38.374419 ° -121.547096 °	53 Y
44	4.70	4.70	Earthen Levee	Slope Stability	WS	C	Repair slope instability.	38.374805 ° -121.545214 °	38.374805 ° -121.545214 °	12
45	4.98	4.98	Earthen Levee	Encroachments	LS	M	Equipment	38.377761 ° -121.541319 °	38.377761 ° -121.541319 °	9 Y
46	4.99	4.99	Earthen Levee	Trim / Thin Trees	LS	A	Thin trees to allow visibility of the ground and room to flood fight.	38.377737 ° -121.541380 °	38.377737 ° -121.541380 °	4 Y
47	5.09	5.09	Earthen Levee	Encroachments	WS	M	Prunings	38.378828 ° -121.540487 °	38.378828 ° -121.540487 °	65

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Elk Slough				Left	9.58	11/28/2011 11/29/2011	Pavel Kazi	

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
48	5.22	5.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.	38.380779 ° -121.540264 °	38.380779 ° -121.540264 °	941 Y
49	5.66	5.66	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.383697 ° -121.545201 °	38.383697 ° -121.545201 °	68 Y
50	5.80	5.80	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.383969 ° -121.542806 °	38.383969 ° -121.542806 °	41
51	5.89	5.94	Earthen Levee	Encroachments	LS	PO	Fences	38.384363 ° -121.541161 °	38.384796 ° -121.540525 °	56 Y
52	5.93	5.93	Earthen Levee	Encroachments	LS	M	Tree or limb	38.384648 ° -121.540669 °	38.384648 ° -121.540669 °	57 Y
53	5.93	5.93	Earthen Levee	Encroachments	CR	CO	Buildings	38.384803 ° -121.540545 °	38.384803 ° -121.540545 °	58 Y
54	6.01	6.09	Earthen Levee	Encroachments	LS	PO	Landscaping	38.385752 ° -121.539905 °	38.386703 ° -121.540042 °	21 Y
55	6.06	6.06	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Improperly abandoned pipe through the levee.	38.386422 ° -121.539861 °	38.386422 ° -121.539861 °	46 Y
56	6.14	6.14	Earthen Levee	Encroachments	LS	PO	Landscaping	38.387348 ° -121.540577 °	38.387348 ° -121.540577 °	23
57	6.24	6.31	Earthen Levee	Encroachments	LS	PO	Landscaping	38.388535 ° -121.541657 °	38.389391 ° -121.541901 °	24 Y
58	6.34	6.34	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.389658 ° -121.541518 °	38.389658 ° -121.541518 °	49 Y
59	6.35	6.36	Earthen Levee	Encroachments	LS	PO	Landscaping	38.389700 ° -121.541462 °	38.389808 ° -121.541285 °	25
60	6.37	6.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.389858 ° -121.541155 °	38.390115 ° -121.540657 °	26 Y
61	6.56	6.56	Earthen Levee	Encroachments	LS	PO	Landscaping	38.391616 ° -121.538378 °	38.391616 ° -121.538378 °	60 Y
62	6.63	6.63	Earthen Levee	Encroachments	LS	C	Prunings	38.392677 ° -121.538072 °	38.392677 ° -121.538072 °	8
63	6.87	6.95	Earthen Levee	Encroachments	LS	PO	Landscaping	38.395670 ° -121.537925 °	38.396027 ° -121.536575 °	30 Y
64	6.93	6.95	Earthen Levee	Encroachments	LS	PO	Fences	38.395470 ° ° -121.536613 °	38.395998 ° ° -121.536613 °	13 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
65	6.98	7.04	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Landscaping has been maintained better, but some obstructions still exist.	38.396187 ° -121.536180 °	38.396989 ° -121.535151 °	933
66	7.02	7.02	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.396655 ° -121.535485 °	38.396655 ° -121.535485 °	61 Y
67	7.06	7.09	Earthen Levee	Encroachments	LS	PO	Landscaping	38.397021 ° -121.535151 °	38.397540 ° -121.535183 °	31
68	7.32	7.32	Earthen Levee	Encroachments	LS	C	Equipment Inspector Comments: Metal piled at landward toe obstructing visibility and ability to flood fight.	38.400699 ° -121.536049 °	38.400699 ° -121.536049 °	945
69	7.39	7.39	Earthen Levee	Encroachments	WS	PO	Landscaping	38.401481 ° -121.536876 °	38.401481 ° -121.536876 °	64 Y
70	7.42	7.47	Earthen Levee	Encroachments	LS	PO	Landscaping	38.401738 ° -121.537127 °	38.402296 ° -121.537678 °	32 Y
71	7.47	7.47	Earthen Levee	Encroachments	WS	M	Debris	38.402274 ° -121.537692 °	38.402274 ° -121.537692 °	14 Y
72	7.50	7.50	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.402779 ° -121.538197 °	38.402779 ° -121.538197 °	63 Y
73	7.55	7.55	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403161 ° -121.538610 °	38.403161 ° -121.538610 °	34 Y
74	7.58	7.58	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403566 ° -121.538886 °	38.403566 ° -121.538886 °	934
75	7.60	7.60	Earthen Levee	Encroachments	LS	M	Prunings	38.403795 ° -121.539205 °	38.403795 ° -121.539205 °	935 Y
76	7.81	7.81	Earthen Levee	Encroachments	WS	PO	Poles	38.405275 ° -121.542473 °	38.405275 ° -121.542473 °	1
77	7.82	7.82	Earthen Levee	Encroachments	WS	M	Tree or limb	38.405341 ° -121.542537 °	38.405341 ° -121.542537 °	54 Y
78	7.82	7.82	Earthen Levee	Encroachments	LS	M	Equipment	38.405342 ° -121.542553 °	38.405342 ° -121.542553 °	16 Y
79	8.21	8.21	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.409275 ° -121.539150 °	38.409275 ° -121.539150 °	946 Y
80	8.46	8.46	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.407960 ° -121.534898 °	38.407960 ° -121.534898 °	66 Y
81	8.48	8.48	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.407958 ° -121.534583 °	38.407958 ° -121.534583 °	67 Y
82	8.52	8.62	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch Inspector Comments: Irrigation ditch in landside toe	38.408238 ° -121.533866 °	38.409291 ° -121.532702 °	69

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough				Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
83	8.62	8.62	Earthen Levee	Encroachments	CR	C	Tree or limb	38.409229 ° -121.532789 °	38.409229 ° -121.532789 °	2
84	8.65	8.65	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.409559 ° -121.532356 °	38.409559 ° -121.532356 °	55 Y
85	8.69	8.69	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.409849 ° -121.531729 °	38.409849 ° -121.531729 °	6 Y
86	8.87	8.87	Earthen Levee	Encroachments	WS	M	Debris	38.411593 ° -121.529143 °	38.411593 ° -121.529143 °	7 Y
87	9.10	9.10	Earthen Levee	Trim / Thin Trees	WS	C	Tree stumps.	38.414660 ° -121.528996 °	38.414660 ° -121.528996 °	77
88	9.35	9.35	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413433 ° -121.526180 °	38.413433 ° -121.526180 °	72 Y
89	9.38	9.38	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.413268 ° -121.525929 °	38.413268 ° -121.525929 °	59 Y
90	9.51	9.51	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413169 ° -121.523707 °	38.413169 ° -121.523707 °	73 Y
91	9.56	9.56	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413649 ° -121.523087 °	38.413649 ° -121.523087 °	74
92	9.56	9.56	Earthen Levee	Encroachments	LS	M	Equipment	38.413560 ° -121.522936 °	38.413560 ° -121.522936 °	950

**\* Location**

LS : Land Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of elderberry bush within 20 feet of shoulder blocking visibility and access.

pkazi\_f\_20110923\_383.jpg



Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_ELK\_0-2\_L\_1.jpg



Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_ELK\_0-2\_L\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_ELK\_0-2\_L\_3.jpg



Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011\_ELK\_0-2\_L\_4.jpg



Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #5

USACE2011\_ELK\_0-2\_L\_5.jpg

**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	2
Start Levee Mile	0.15
End Levee Mile	9.40
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #6

USACE2011\_ELK\_0-2\_L\_6.jpg



Levee Mile Report Line	3
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of steps, a dock, and associated utilities on the waterward slope.

pkazi\_f\_20110923\_319.jpg



Levee Mile Report Line	6
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of trees and bushes within 20 feet of the shoulder blocking visibility and access.

pkazi\_f\_20110923\_384.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	7
Start Levee Mile	0.92
End Levee Mile	0.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of elderberries on the landward slope blocking visibility and access.

pkazi\_f\_20110923\_321.jpg



Levee Mile Report Line	8
Start Levee Mile	1.23
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Damaged slope from foot traffic and rain runoff at LM 1.23

pkazi\_f\_20110923\_326.jpg



Levee Mile Report Line	8
Start Levee Mile	1.23
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Erosion couldn't be seen due to vegetation during Spring 2011 inspection. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_327.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	9
Start Levee Mile	1.82
End Levee Mile	1.82
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion was found on the waterside slope of the levee near the vicinity of the pipe. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_361.jpg



Levee Mile Report Line	11
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Depression was found on the crown of the levee looking downstream.

pkazi\_f\_20111208\_434.jpg



Levee Mile Report Line	13
Start Levee Mile	2.07
End Levee Mile	2.07
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Depression was found on the crown of the levee looking downstream.

pkazi\_f\_20111208\_433.jpg



**\* Location**

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N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	14
Start Levee Mile	2.34
End Levee Mile	2.34
Location	Water Side
Category	Earthen Levee
Item	Encroachments

New tree has been planted on the landside slope of the levee looking upstream.

pkazi\_f\_20111208\_432.jpg



Levee Mile Report Line	15
Start Levee Mile	2.60
End Levee Mile	2.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the landward slope.

pkazi\_f\_20110923\_328.jpg



Levee Mile Report Line	16
Start Levee Mile	2.77
End Levee Mile	2.77
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

The crown was repaired by the LMA. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_353.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	17
Start Levee Mile	2.87
End Levee Mile	2.87
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_332.jpg



Levee Mile Report Line	18
Start Levee Mile	2.93
End Levee Mile	2.93
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Slope instability was found on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee.

pkazi\_f\_20111208\_431.jpg



Levee Mile Report Line	19
Start Levee Mile	2.93
End Levee Mile	2.93
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Depression was found on the crown of the levee looking downstream.

pkazi\_f\_20111208\_430.jpg



**\* Location**

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CR : Crown

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	20
Start Levee Mile	3.01
End Levee Mile	3.01
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_333.jpg



Levee Mile Report Line	21
Start Levee Mile	3.18
End Levee Mile	3.18
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_334.jpg



Levee Mile Report Line	22
Start Levee Mile	3.21
End Levee Mile	3.21
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_335.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	23
Start Levee Mile	3.26
End Levee Mile	3.26
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_336.jpg



Levee Mile Report Line	24
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Debris were found on the landside of the levee. The picture was taken from the crown looking landside.

pkazi\_f\_20110923\_351.jpg



Levee Mile Report Line	25
Start Levee Mile	3.34
End Levee Mile	3.34
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were found on the landside of the levee looking downstream.

pkazi\_f\_20111208\_428.jpg



**\* Location**

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	26
Start Levee Mile	3.34
End Levee Mile	3.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Material was found on the landside of the levee looking downstream.	
pkazi_f_20111208_429.jpg	



Levee Mile Report Line	27
Start Levee Mile	3.34
End Levee Mile	3.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments
An abandon pipe was located on the landside of the levee. The picture was taken from the crown looking downstream.	
pkazi_f_20110923_350.jpg	



Levee Mile Report Line	28
Start Levee Mile	3.41
End Levee Mile	3.41
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
pkazi_f_20110923_339.jpg	

**\* Location**

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WS : Water Side  
CR : Crown

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	29
Start Levee Mile	3.43
End Levee Mile	3.48
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The erosion site has been repaired by LMA. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_371.jpg



Levee Mile Report Line	30
Start Levee Mile	3.50
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.

pkazi\_f\_20110923\_356.JPG



Levee Mile Report Line	31
Start Levee Mile	3.75
End Levee Mile	3.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Repair minor damage to levee slope along landward ramp at LM 3.75.

pkazi\_f\_20110923\_380.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	31
Start Levee Mile	3.75
End Levee Mile	3.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Slope instability possible due to vehicular traffic on the landside of the levee. The picture was taken from the crown looking upstream during Spring 2011 inspection.

pkazi\_f\_20110923\_381.jpg



Levee Mile Report Line	32
Start Levee Mile	3.77
End Levee Mile	3.77
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Repair slope damaged by foot traffic at LM 3.77.

pkazi\_f\_20110923\_330.JPG



Levee Mile Report Line	32
Start Levee Mile	3.77
End Levee Mile	3.77
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Updated picture of the erosion on the waterside slope of the levee during Spring 2011 inspection.

pkazi\_f\_20110923\_331.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	33
Start Levee Mile	3.79
End Levee Mile	3.79
Location	Water Side
Category	Earthen Levee
Item	Animal Control

A rodent hole was found on the shoulder of waterside of the levee. The picture was taken from the crown looking toward the slough.

pkazi\_f\_20110923\_347.jpg



Levee Mile Report Line	34
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Debris pile on landward slope at LM 3.95.

pkazi\_f\_20110923\_357.JPG



Levee Mile Report Line	34
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Updated view of material piled at the toe of the levee as of fall 2009.

pkazi\_f\_20110923\_358.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	34
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Debris found on the landside of the levee during Spring 2011 inspection. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_359.jpg



Levee Mile Report Line	36
Start Levee Mile	4.06
End Levee Mile	4.06
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

View of depressions in the roadway looking upstream.

pkazi\_f\_20110923\_346.jpg



Levee Mile Report Line	37
Start Levee Mile	4.10
End Levee Mile	4.10
Location	Water Side
Category	Earthen Levee
Item	Animal Control

A rodent hole was found on the waterside slope of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_341.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	39
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_348.jpg



Levee Mile Report Line	40
Start Levee Mile	4.39
End Levee Mile	4.39
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

View of depressions in the crown roadway looking upstream.

pkazi\_f\_20110923\_349.jpg



Levee Mile Report Line	41
Start Levee Mile	4.46
End Levee Mile	4.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Remove pruning pile on landward slope at LM 4.46.

pkazi\_f\_20110923\_362.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	42
Start Levee Mile	4.51
End Levee Mile	4.51
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Tree branches were found on the toe of landside of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_363.jpg



Levee Mile Report Line	43
Start Levee Mile	4.59
End Levee Mile	4.59
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Thin/trim trees to allow for the top 20' waterward slope of levee to be seen at LM 4.59.

pkazi\_f\_20110923\_364.JPG



Levee Mile Report Line	45
Start Levee Mile	4.98
End Levee Mile	4.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment on the landside toe of the levee. The picture was taken from crown looking downstream.

pkazi\_f\_20110923\_325.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	46
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees were trimmed to see the visibility of the landward slope of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_320.jpg



Levee Mile Report Line	48
Start Levee Mile	5.22
End Levee Mile	5.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

View of varying elevations in the crown of the levee at the transition from county road to access road.

pkazi\_f\_20110923\_385.jpg



Levee Mile Report Line	49
Start Levee Mile	5.66
End Levee Mile	5.66
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree stump was found on the waterside of the levee looking upstream.

pkazi\_f\_20111208\_427.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	51
Start Levee Mile	5.89
End Levee Mile	5.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of fence around a horse pen along the shoulder of the levee and the landward slope.

pkazi\_f\_20110923\_365.jpg



Levee Mile Report Line	52
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a tree trunk lying on the landward slope blocking visibility.

pkazi\_f\_20110923\_366.jpg



Levee Mile Report Line	53
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Crown
Category	Earthen Levee
Item	Encroachments

Building & associated landscaping on levee crown at LM 5.93.

pkazi\_f\_20110923\_367.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	54
Start Levee Mile	6.01
End Levee Mile	6.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping was found on the landside of the levee looking upstream.	
pkazi_f_20111208_418.jpg	



Levee Mile Report Line	55
Start Levee Mile	6.06
End Levee Mile	6.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of an improperly abandoned pipe through the levee looking upstream.	
pkazi_f_20110923_355.jpg	



Levee Mile Report Line	57
Start Levee Mile	6.24
End Levee Mile	6.31
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Oleander on landward slope blocking view of levee from LM 6.24 to 6.32	
pkazi_f_20110923_337.jpg	

**\* Location**

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WS : Water Side  
CR : Crown

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N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	58
Start Levee Mile	6.34
End Levee Mile	6.34
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

pkazi\_f\_20110923\_360.jpg



Levee Mile Report Line	60
Start Levee Mile	6.37
End Levee Mile	6.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landward slope blocking view from LM 6.37 to 6.40

pkazi\_f\_20110923\_338.jpg



Levee Mile Report Line	61
Start Levee Mile	6.56
End Levee Mile	6.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of landscaping along the landward slope.

pkazi\_f\_20110923\_368.jpg



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	63
Start Levee Mile	6.87
End Levee Mile	6.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope blocking view from LM 6.87 to 6.95	
pkazi_f_20110923_342.jpg	



Levee Mile Report Line	64
Start Levee Mile	6.93
End Levee Mile	6.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fence was found on the landside of the levee looking downstream.	
pkazi_f_20111208_419.jpg	



Levee Mile Report Line	66
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Updated erosion site picture on the waterside slope of the levee looking upstream during Spring 2011 inspection.	
pkazi_f_20110923_370.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	66
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion was found on the waterside of the levee looking downstream. This picture was taken during fall 2011 inspection.

pkazi\_f\_20111208\_420.jpg



Levee Mile Report Line	69
Start Levee Mile	7.39
End Levee Mile	7.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_373.jpg



Levee Mile Report Line	70
Start Levee Mile	7.42
End Levee Mile	7.47
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landward slope blocking view from LM 7.42 to 7.47

pkazi\_f\_20110923\_343.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	71
Start Levee Mile	7.47
End Levee Mile	7.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Debris was found on the waterside of the levee looking upstream.	
pkazi_f_20111208_421.jpg	



Levee Mile Report Line	72
Start Levee Mile	7.50
End Levee Mile	7.50
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree stump on the landward slope.	
pkazi_f_20110923_372.jpg	



Levee Mile Report Line	73
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope blocking view from LM 7.52 to 7.58	
pkazi_f_20110923_345.jpg	

**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	75
Start Levee Mile	7.60
End Levee Mile	7.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Prunings located on the toe of landward side of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_382.jpg



Levee Mile Report Line	75
Start Levee Mile	7.60
End Levee Mile	7.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

pkazi\_f\_20111208\_422.jpg



Levee Mile Report Line	77
Start Levee Mile	7.82
End Levee Mile	7.82
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Tree limb was found on the waterside of the levee looking upstream.

pkazi\_f\_20111208\_424.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	78
Start Levee Mile	7.82
End Levee Mile	7.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment was found on the landside of the levee looking upstream.

pkazi\_f\_20111208\_423.jpg



Levee Mile Report Line	79
Start Levee Mile	8.21
End Levee Mile	8.21
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion occurring along the waterward slope.

pkazi\_f\_20110923\_386.jpg



Levee Mile Report Line	80
Start Levee Mile	8.46
End Levee Mile	8.46
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Repair erosion on waterward slope near shoulder at LM 8.46.

pkazi\_f\_20110923\_374.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	81
Start Levee Mile	8.48
End Levee Mile	8.48
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Slope instability on the waterside slope of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_375.jpg



Levee Mile Report Line	84
Start Levee Mile	8.65
End Levee Mile	8.65
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

A tree stump was found on the waterside of the levee looking upstream.

pkazi\_f\_20111208\_425.jpg



Levee Mile Report Line	85
Start Levee Mile	8.69
End Levee Mile	8.69
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion was found on the waterside slope of the levee. The picture was taken from the crown looking downstream.

pkazi\_f\_20110923\_322.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	86
Start Levee Mile	8.87
End Levee Mile	8.87
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream.

pkazi\_f\_20110923\_323.jpg



Levee Mile Report Line	88
Start Levee Mile	9.35
End Levee Mile	9.35
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees needed to be trimmed for visibility of the waterside slope of the levee. The picture was taken from the crown looking towards the slough.

pkazi\_f\_20110923\_376.jpg



Levee Mile Report Line	89
Start Levee Mile	9.38
End Levee Mile	9.38
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

A tree stump was found on the waterside of the levee looking upstream.

pkazi\_f\_20111208\_426.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/28/2011 11/29/2011	Pavel Kazi

Levee Mile Report Line	90
Start Levee Mile	9.51
End Levee Mile	9.51
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Thin/trim trees to allow for visibility of top 20' of waterward slope at LM 9.51.	
pkazi_f_20110923_377.JPG	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor